

554,442

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
3 March 2005 (03.03.2005)

PCT

(10) International Publication Number  
**WO 2005/019410 A2**

- (51) International Patent Classification<sup>7</sup>: **C12N**
- (21) International Application Number:  
PCT/US2004/012730
- (22) International Filing Date: 26 April 2004 (26.04.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
60/465,216 25 April 2003 (25.04.2003) US
- (71) Applicant (for all designated States except US): **IN-  
TRADIGM CORPORATION** [US/US]; Suite K, 12115  
Parklawn Drive, Rockville, MD 20852 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **TANG, Quinn, T.**  
[US/US]; 31 Longmeadow Drive, Gaithersburg, MD 20878  
(US). **LU, Patrick, Y.** [US/US]; 17093 Briardale Road,  
Rockville, MD 20855 (US). **XIE, Frank, Y.** [CN/US];

13921 Rockingham Road, Germantown, MD 20874 (US).  
**LIU, Yijia** [CN/US]; 24 Shady Elm Mews, Gaithersburg,  
MD 20878 (US). **XU, Jun** [CN/US]; 18120 Coachman  
Road, Germantown, MD 20878 (US). **WOODLE, Martin**  
C. [US/US]; 8205 Beech Tree Road, Bethesda, MD 20817  
(US).

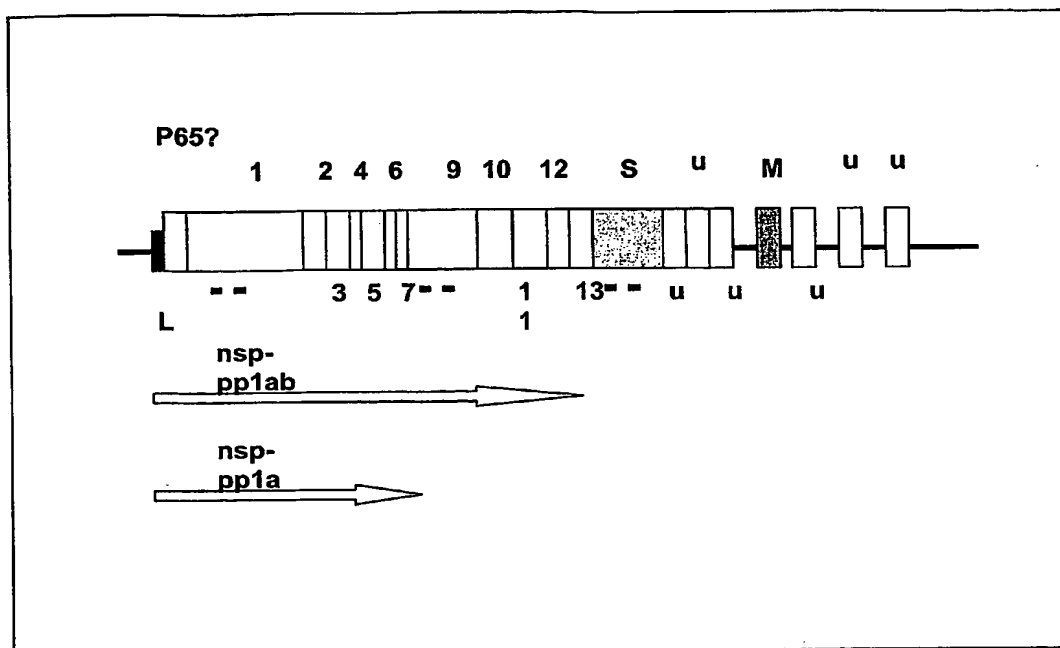
(74) Agents: **BOOTH, Paul, M.** et al.; Heller Ehrman White &  
McAuliffe LLP, Suite 300, 1666 K Street, NW, Washing-  
ton, District of Columbia 20006-1228 (US).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: RNAI AGENTS FOR ANTI-SARS CORONAVIRUS THERAPY



(57) Abstract: The present invention provides compositions and methods that are useful for the treatment of severe acute respira-  
tory syndrome (SARS). More specifically, nucleic acid agents such as siRNA molecules and their analogues that target respiratory  
infections including SARS coronavirus and their methods of use are described, for clinical treatments of SARS, respiratory viral  
infections, for prevention and treatment of respiratory infections as needed for bio-defense, for treatment of respiratory diseases, and  
for discovery of therapeutic targets for respiratory diseases and infections.



WO 2005/019410 A2



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— *without international search report and to be republished upon receipt of that report*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*